

Title (en)
PIVOT ASSEMBLY.

Title (de)
ZAPFENSTRUKTUR.

Title (fr)
ENSEMBLE DE PIVOTEMENT.

Publication
EP 0346365 A4 19900605 (EN)

Application
EP 88901731 A 19880208

Priority
US 13579087 A 19871221

Abstract (en)
[origin: US4772151A] A pivot assembly provides limited pivotal motion between a relatively stationary member and a relatively moveable member which is supported on the stationary member. The stationary member is secured to a vehicle frame and the moveable member forms a portion of an endless track supporting frame. The pivot assembly includes a plurality of elastomeric bearings between the stationary and moveable members and a loading member to compress and preload the bearings. Conventional pivot assemblies utilize metal sleeve, roller or ball bearings to provide relative pivotal motion between stationary and cooperative moveable members. Such metal bearings require constant lubrication, and seals to contain the lubrication, and produce objectionable noise and vibration. The subject pivot assembly requires no lubrication or seals and generates low levels of noise and vibration by isolating the stationary and moveable members with the elastomeric bearings. The dual tapered, elastomeric preloaded bearings restrain and capture the relatively moveable member axially and radially without a thrust bearing.

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IPC 8 full level
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Citation (search report)

- [Y] US 3435908 A 19690401 - SUNDERLIN DONALD EDWARD, et al
- [Y] US 2935347 A 19600503 - GLEN LIVERSAGE
- [A] EP 0245746 A1 19871119 - GOODRICH CO B F [US]
- [A] DE 2815503 A1 19791018 - WARNEKE JUN THEODOR
- See references of WO 8905921A1

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DE FR GB IT

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US 4772151 A 19880920; BR 8807345 A 19900301; CA 1288457 C 19910903; DE 3882978 D1 19930909; DE 3882978 T2 19931223; EP 0346365 A1 19891220; EP 0346365 A4 19900605; EP 0346365 B1 19930804; JP 2603712 B2 19970423; JP H02502561 A 19900816; WO 8905921 A1 19890629

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US 13579087 A 19871221; BR 8807345 A 19880208; CA 573743 A 19880803; DE 3882978 T 19880208; EP 88901731 A 19880208; JP 50176988 A 19880208; US 8800369 W 19880208